

G3 Combi - Inverter/Chargers

Power. Anytime. Anywhere.



12v or 24v | 230VAC/50Hz

COMBINED INVERTER/CHARGERS



Pure sine wave curve



Smooth start-up technology



Safe voltage shutdown



Neutrik connectors

FULL OUTPUT POWER: -20°C to +50°C

CLAYTON[™]
POWER

CP | G3 Combi - Inverter/Charger

for use of flexible 230V, everywhere.



The G3 Combi - Inverter/Charger, is a combination of a pure sine wave inverter and an intelligent battery charger. The unit has a number of benefits thanks to its dual functionality.

The Inverter/Charger charges batteries automatically, when it is connected to the mains grid.

When it is disconnected, the pure sine wave inverter converts 12 or 24 DC voltage from the batteries to 230VAC.

The Inverter/Charger is particularly well-suited for emergency power and has a built-in UPS (uninterruptible power supply) function.

As a stationary device the Inverter/Charger serves ideal as a UPS system with uninterrupted switchover to battery-powered AC-supply, so it can serve important equipment in case of unforeseen loss of power from the grid.

If there is no external AC-voltage available, the G3 Combi inverter/charger can be switched on to supply an accurate sine wave AC-voltage.

The Inverter/Charger is taken through an extensive testing program to minimize failure rates and to make sure that the product is vibration resistant and suited for also harsh environments.

All components are coated with a special lacquer to make the Inverter/Charger moist and damp resistant as well as to avoid problems with dust particles.

The Inverter/Charger is based on the more advanced switch mode technology to be able to power 100% output in FTS, full temperature scale -20°C to +50°C (-4°F to +122°F). It also means that the G3 Inverter/Charger has a low weight and is designed very compact.



Inverter/Charger series:

12VDC - 230VAC/50Hz

1000W | G3 1012/50

1300W | G3 1312/80

2000W | G3 2012/100

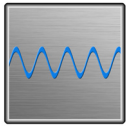
24VDC - 230VAC/50Hz

1000W | G3 1024/30

1500W | G3 1524/40

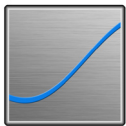
2300W | G3 2324/50

Fully automatic three step charge cycle control



Pure sine wave curve

Energy as mains. Able to handle sensitive electrical appliances.



Smooth start-up technology

Start-up of electrical appliances with high peak power loads.

Integrated UPS function

Manufactured in Europe

12VDC - 230VAC/50Hz Inverter/Chargers

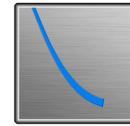
Model	Description	Effect cont.	Effect 15min.	Peak	Charge	SRP* (Ex VAT)
G3 1012/50	12VDC / 50ADC / 230VAC - 1 kW	1000W	1200W	2000W	50A	€970,-
G3 1312/80	12VDC / 80ADC / 230VAC - 1,3 kW	1300W	1500W	3000W	80A	€1180,-
G3 2012/100	12VDC / 100ADC / 230VAC - 2 kW	2000W	2300W	4000W	100A	€1530,-

24VDC - 230VAC/50Hz Inverter/Chargers

Model	Description	Effect cont.	Effect 15min.	Peak	Charge	SRP* (Ex VAT)
G3 1024/30	24VDC / 30ADC / 230VAC - 1 kW	1000W	1200W	2000W	30A	€1080,-
G3 1524/40	24VDC / 40ADC / 230VAC - 1,5 kW	1500W	1700W	3000W	40A	€1270,-
G3 2324/50	24VDC / 50ADC / 230VAC - 2,3 kW	2300W	2500W	4500W	50A	€1550,-

SRP* = Suggested Retail Price, exclusive national and local VAT.

Adjustable battery and charge settings by single wire bus



Safe voltage shutdown

Protects the battery pack against deep discharge.



Neutrik connectors

Fast, safe and easy installation. (included)

Small and compact design





Datasheet

Inverter/Chargers	G3 1012/50	G3 1312/80	G3 2012/100	G3 1024/30	G3 1524/40	G3 2324/50
Continuous output power in FTS*:	1000W	1300W	2000W	1000W	1500W	2300W
Output power surge (1 sec.):	2000W	3000W	4000W	2000W	3000W	3000W
Output power surge (10 sec.):	1500W	1800W	2800W	1500W	1800W	3000W
Output power surge (15 min.):	1200W	1500W	2200W	1200W	1700W	2500W
Nominal input voltage:	12VDC	12VDC	12VDC	24VDC	24VDC	24VDC
Max input voltage:	15VDC	15VDC	15VDC	30VDC	30VDC	30VDC
Low battery voltage cut-off (Slow 3 sec.):	10,5VDC	10,5VDC	10,5VDC	21VDC	21VDC	21VDC
Low battery voltage cut-off (Fast <10 mS):	9VDC	9VDC	9VDC	18VDC	18VDC	18VDC
No load power consumption:	10W	10W	15W	10W	10W	15W
Voltage for switch ON (after cut-off):	12,75VDC	12,75VDC	12,75VDC	25,5VDC	25,5VDC	25,5VDC
Max charge current (adjustable)	0 - 50A	0 - 80A	0 - 100A	0 - 30A	0 - 40A	0 - 50A
Charge current reduction @ 50°C	0%	0%	0%	0%	0%	0%
Charge current reduction @ 60°C	15%	15%	15%	15%	15%	15%
Charge current reduction @ 80°C	50%	50%	50%	50%	50%	50%
Boost charge voltage (factory pre-set)	14.4VDC	14.4VDC	14.4VDC	28.8VDC	28.8VDC	28.8VDC
Float charge voltage (factory pre-set)	13.5VDC	13.5VDC	13.5VDC	27VDC	27VDC	27VDC
Dimensions (mm):	299x198,2x116	299x198,2x116	376x198,2x116	299x198,2x116	299x198,2x116	376x198,2x116
Weight:	7,5kg	7,5kg	9,5kg	7,5kg	7,5kg	9,5kg

FTS* = Full Temperature Scale: -20°C to +50°C (-4°F to +122°F)

Nominal output voltage:	230VAC
Output voltage tolerance:	-10% to +5%
Frequency:	50Hz
Output wave form:	true/pure sine wave
Tolerance at input voltage 25V to 31.5V:	(G3 2336: -18% to +5%)
THD max.:	3%
Efficiency:	90%
Operating temperature:	-20°C to +50°C (-4°F to +122°F)
Max internal temperature:	Inverter shut down: +80°C (176°F)
Approvals:	CE, E13-ECE 10R03/2004/104/EG
Protection category:	IP21